

Title (en)
MEDIUM-FREQUENCY TRANSFORMER WITH DRY CORE

Title (de)
MITTELFREQUENZTRANSFORMATOR MIT TROCKENEM KERN

Title (fr)
TRANSFORMATEUR DE FRÉQUENCE MOYENNE À C UR SEC

Publication
EP 3364430 A1 20180822 (EN)

Application
EP 17156713 A 20170217

Priority
EP 17156713 A 20170217

Abstract (en)
A transformer (1) is provided, which comprises a tank (10) having an enclosed volume (11) with an insulating material (13), the tank (10) comprising at least one channel (25) extending through the tank (10), wherein the interior of the at least one channel (25) is separated from the enclosed volume (11) of the tank (10) by a channel wall (17). A transformer core (30) is provided outside of the enclosed volume (11), comprising at least one core leg (32) extending through the tank (10) via the at least one channel (25). At least one coil (50, 52) is located inside the enclosed volume (11), the coil (50, 52) being wound about the at least one channel (25), wherein the tank (10) has an inner wall or outer wall (16) comprising a semiconductive layer (40), which comprises fibers (42) embedded in an impregnating material (44).

IPC 8 full level
H01F 27/02 (2006.01)

CPC (source: EP KR RU US)
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Citation (search report)
• [X] US 6324851 B1 20011204 - SZASZ PAUL [DE], et al
• [A] EP 1729310 A1 20061206 - STS SPEZIAL TRANSFORMATOREN ST [DE]
• [A] US 2011043312 A1 20110224 - YANG TAE-JIN [KR]

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EP3951813A4; WO2021098181A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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EP 17156713 A 20170217; AU 2018222793 A 20180219; BR 112019015790 A 20180219; CA 3053868 A 20180219; CN 201880012355 A 20180219; EP 2018054038 W 20180219; JP 2019544671 A 20180219; KR 20197027031 A 20180219; MX 2019008964 A 20180219; RU 2019129117 A 20180219; US 201916537868 A 20190812